

Comparisons of Job Characteristics

Focus Occupation: Rail Car Repairers (49-3043)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Rail Car Repairers (49-3043)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	23.6	14.0	<< Extensive education and/or training may be required
Engineering and Technology	5.7	10.2	4.5	<< Extensive education and/or training may be required
Physics	4.3	7.9	3.8	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Rail Car Repairers (49-3043)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	13.6	11.5	< A higher skill level may be required
Repairing	3.4	13.2	12.0	0 Current skill level may be sufficient
Equipment Maintenance	3.5	12.9	10.6	< A higher skill level may be required
Operation Monitoring	6.6	11.9	9.8	< A higher skill level may be required
Quality Control Analysis	5.9	11.9	9.6	< A higher skill level may be required
Operation and Control	5.4	10.8	10.0	0 Current skill level may be sufficient
Equipment Selection	3.3	9.3	6.2	<< Extensive development of skills in this area may be required
Management of Material Resources	3.7	6.4	3.9	<< Extensive development of skills in this area may be required
Installation	1.7	6.0	5.6	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94			
Focus Occupation: Rail Car Repairers (49-3043) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.9	12.3	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	13.5	12.3	0	Current ability level may be sufficient
Extent Flexibility	4.8	13.4	11.8	<	Some improvement in abilities may be required
Manual Dexterity	6.5	13.0	12.0	0	Current ability level may be sufficient
Finger Dexterity	7.6	12.9	11.5	<	Some improvement in abilities may be required
Visualization	7.5	12.2	10.3	<	Some improvement in abilities may be required
Reaction Time	4.8	11.4	10.8	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	11.0	8.8	<	Some improvement in abilities may be required
Response Orientation	4.0	9.4	8.5	<	Some improvement in abilities may be required
Sound Localization	2.2	5.8	5.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 92
Focus Occupation: Rail Car Repairers (49-3043) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Align or adjust clearances of mechanical components or parts	72	
Align or adjust clearances of vehicle body parts or components	78	
Align vehicle frame	87	
Burn (cut), trim, or scarf metal objects	80	
Conduct tests to locate mechanical system malfunction	71	
Determine installation, service, or repair needed	58	
Diagnose mechanical problems in machinery or equipment	65	
Examine vehicle to detect malfunctions, damage, or maintenance needed	75	
Fabricate sheet metal parts or items	80	

Fabricate, assemble, or disassemble manufactured products by hand	11
Identify base metals for welding	68
Inspect machinery or equipment to determine adjustments or repairs needed	42
Maintain or repair industrial or related equipment/machinery	39
Maintain repair records	65
Maintain welding machines or equipment	70
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Set up and operate variety of machine tools	62
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use combination welding procedures	68
Use electronic calibration devices	68
Use hand or power tools	2
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use measuring devices in repairing industrial or heavy equipment	84
Use precision measuring devices in mechanical repair work	61
Use voltmeter, ammeter, or ohmmeter	52
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Rail Car Repairers (49-3043)

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.